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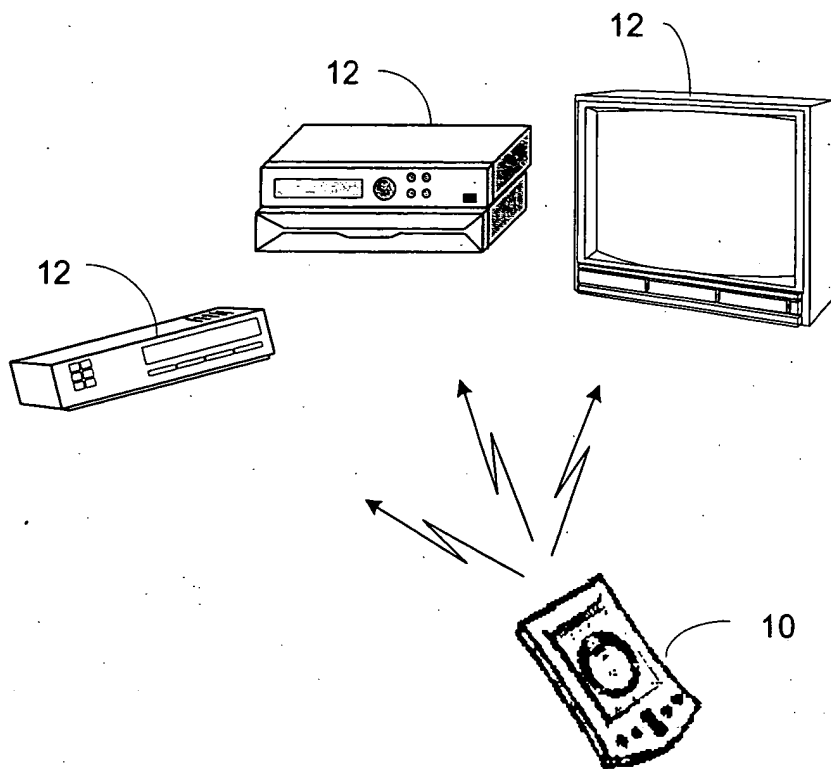


FIGURE 1

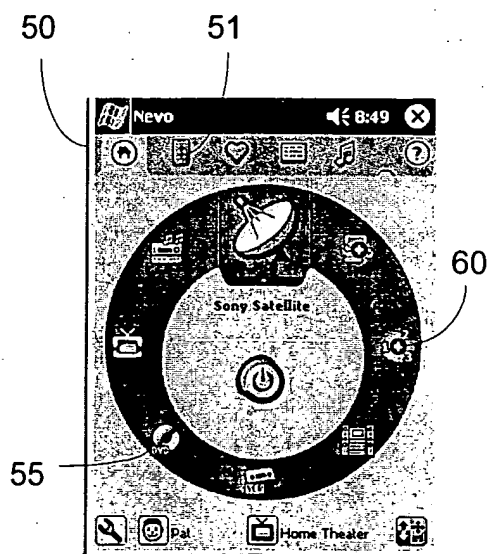


FIGURE 2a

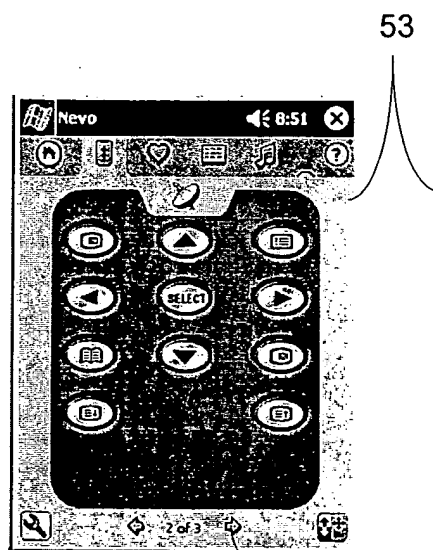


FIGURE 2b

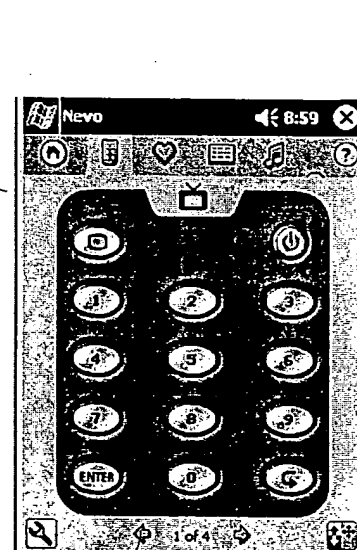


FIGURE 2c

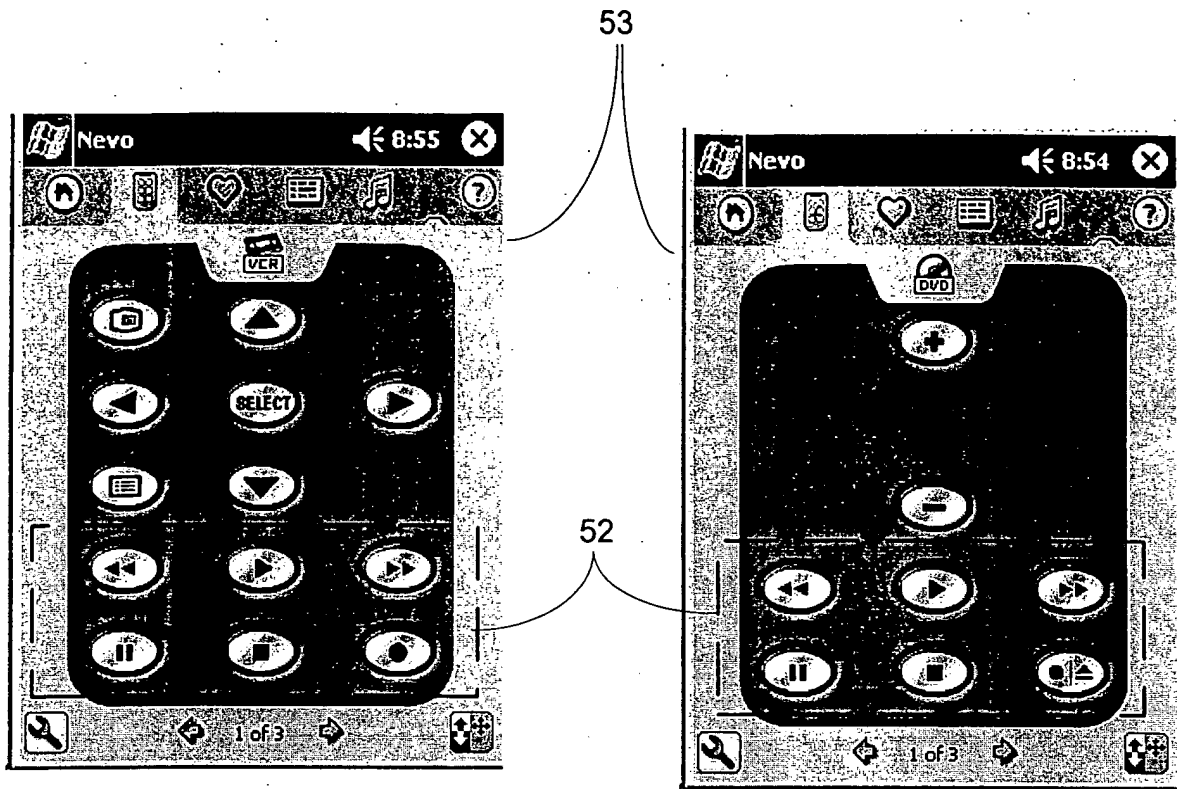


FIGURE 3a

FIGURE 3b

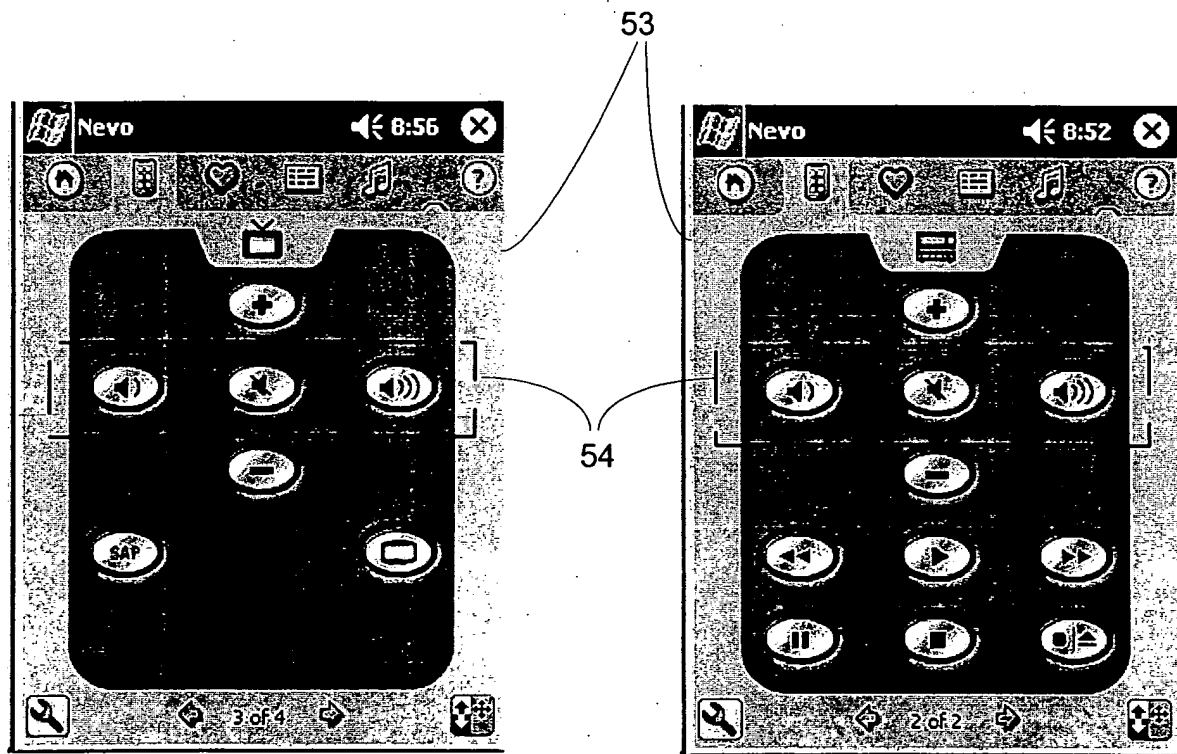


FIGURE 4a

FIGURE 4b



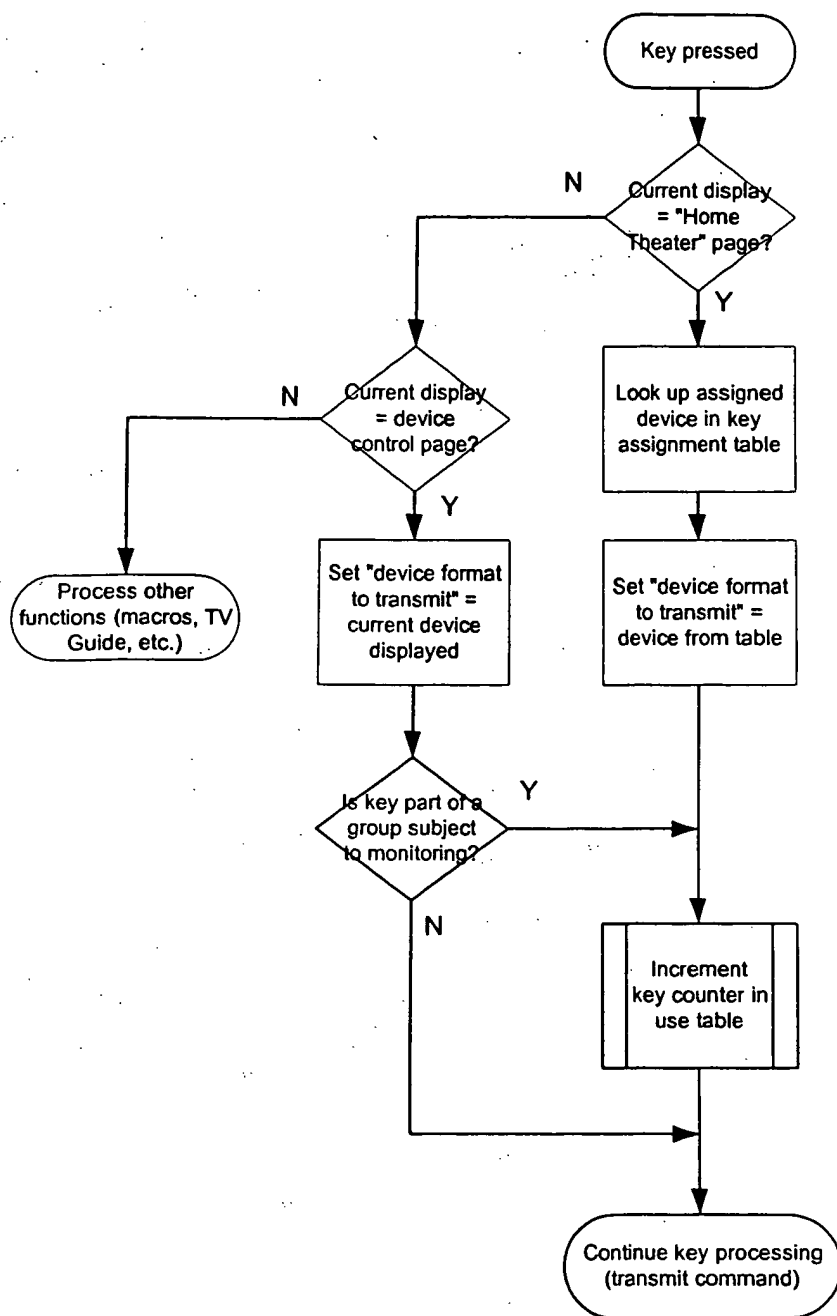


FIGURE 7

	TV	SAT	VCR	DVD	RCVR	etc..
Group 1 { Play	X	X	19	47	0	
Stop	X	X	15	39	0	
Fast forward	X	X	3	8	0	
Rewind	X	X	10	2	0	
Pause	X	X	4	53	0	
Group 2 { Volume up	83	X	0	X	279	
Volume down	79	X	0	X	383	
Mute	52	X	0	X	140	
Group 3 { Channel up	12	158	5	0	0	
Channel down	11	86	11	0	0	
Group 4 { Input select	77	X	2	X	15	

FIGURE 8

Play	DVD
Stop	DVD
Fast forward	DVD
Rewind	DVD
Pause	DVD
Volume up	RCVR
Volume down	RCVR
Mute	RCVR
Channel up	SAT
Channel down	SAT
Input select	TV

FIGURE 9

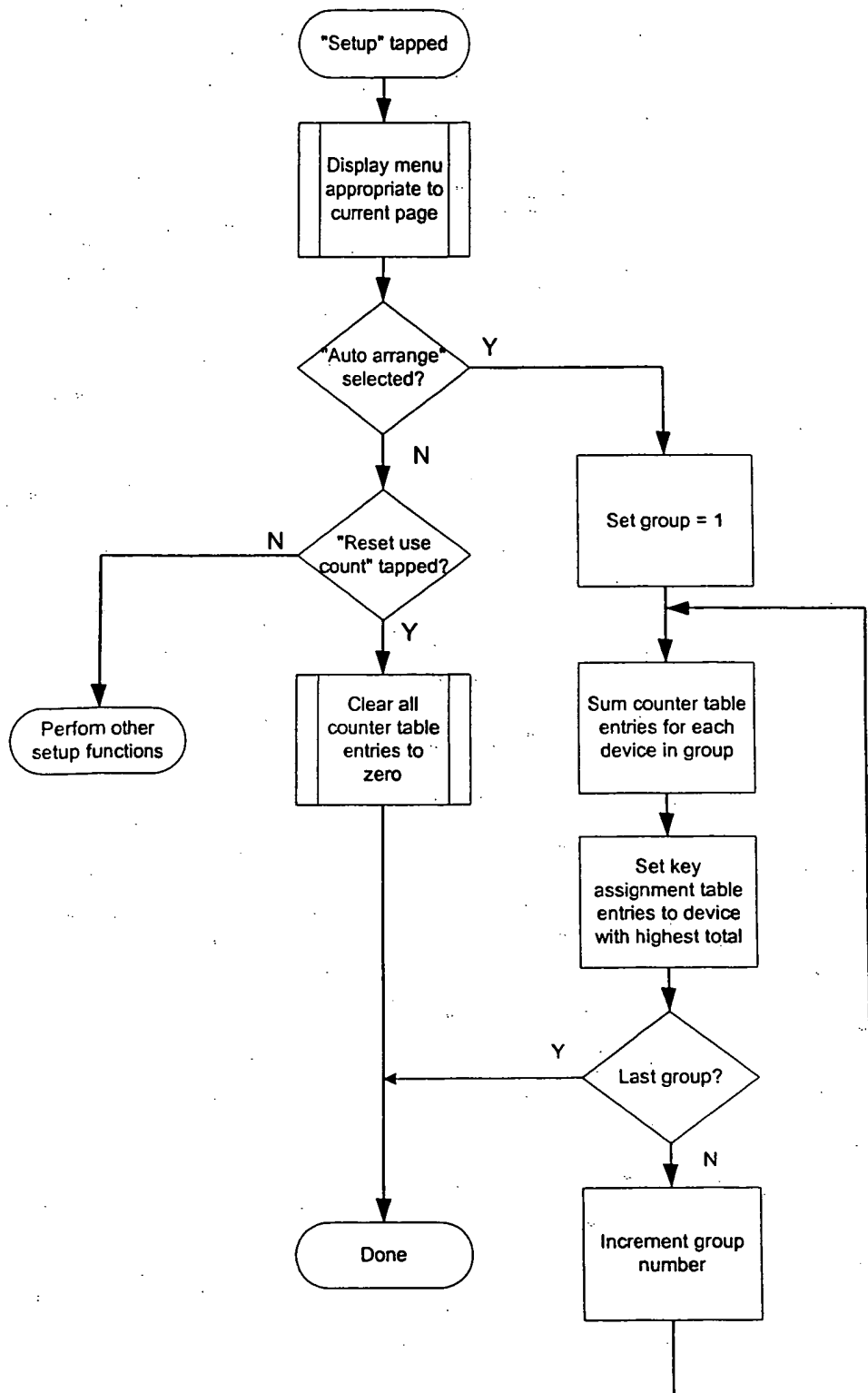


FIGURE 10

Room 2 User 2		TV	SAT	VCR	DVD	RCVR	etc.
Play		x	x	51	0	0	
Room 1 User 2		TV	SAT	VCR	DVD	RCVR	etc.
Play		x	x	3	9	0	
Room 2 User 1		TV	SAT	VCR	DVD	RCVR	etc.
Play		x	x	79	0	0	
Room 1 User 1		TV	SAT	VCR	DVD	RCVR	etc.
Play	x	x	19	47	0		
Stop	x	x	15	39	0		
Fast forward	x	x	3	8	0		
Rewind	x	x	10	2	0		
Pause	x	x	4	53	0		
Volume up	83	x	0	x	279		
Volume down	79	x	0	x	383		
Mute	52	x	0	x	140		
Channel up	12	158	5	0	0		
Channel down	11	86	11	0	0		
Input select	77	x	2	x	15		

Play		VCR
Play		DVD VCR
Play		VCR DVD VCR
Play	DVD VCR	DVD VCR
Stop	DVD VCR	DVD VCR
Fast forward	DVD VCR	DVD TV
Rewind	DVD VCR	TV TV
Pause	DVD RCVR	TV TV
Volume up	RCVR RCVR	SAT TV
Volume down	RCVR RCVR	SAT TV
Mute	RCVR TV	TV
Channel up	SAT TV	
Channel down	SAT TV	
Input select	TV	

FIGURE 11



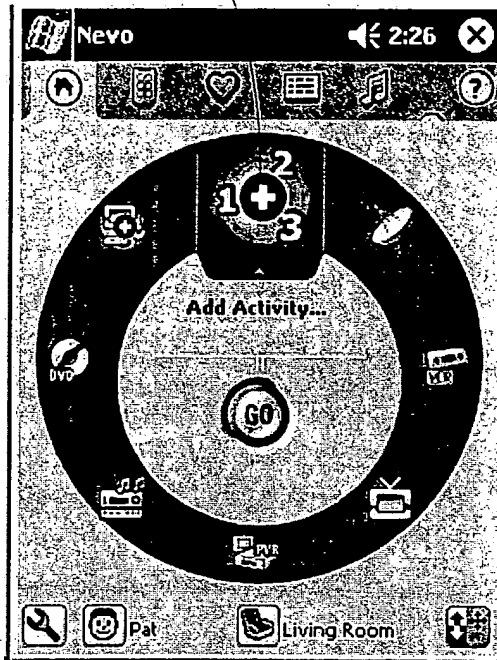


FIGURE 12 a

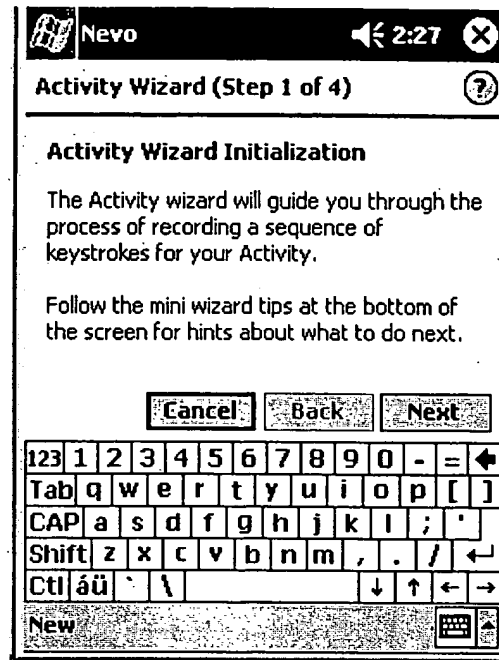


FIGURE 12 b

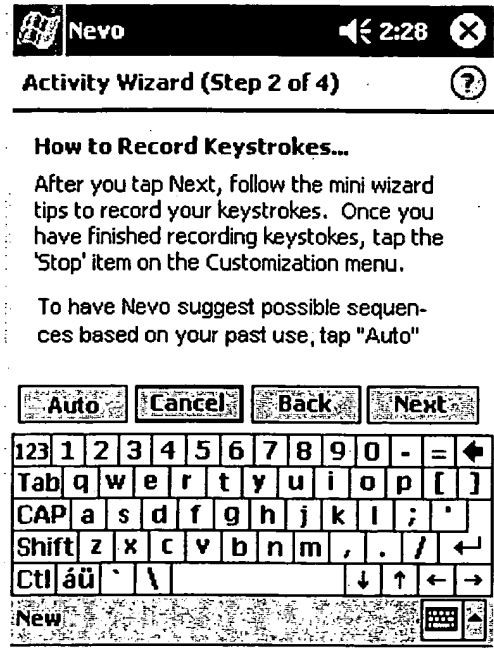


FIGURE 12 c



FIGURE 12 d

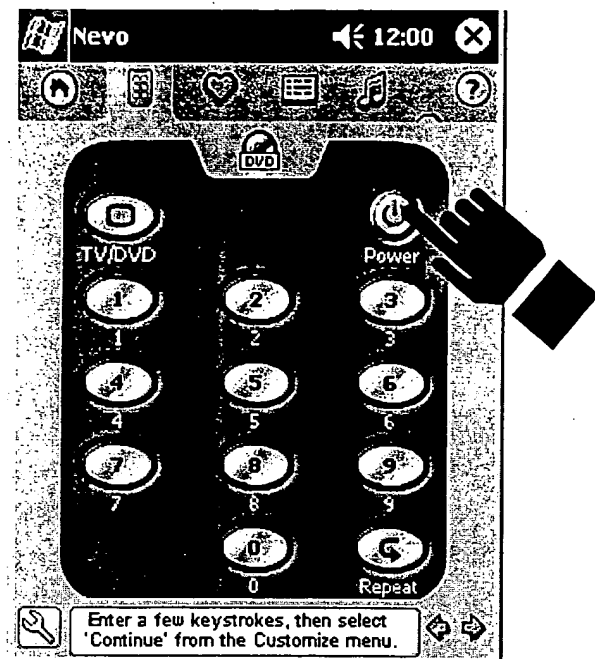


FIGURE 12 e

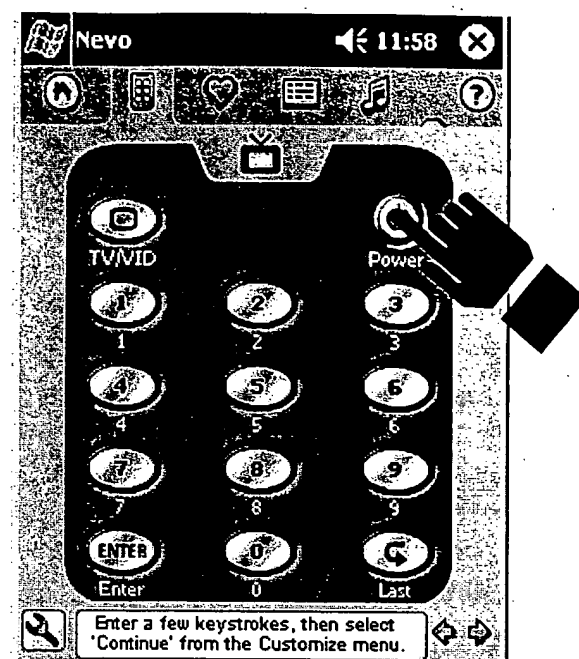


FIGURE 12 f

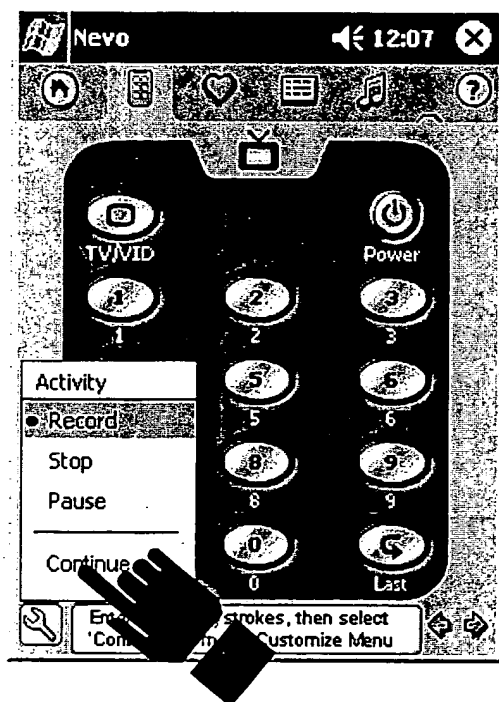


FIGURE 12 g

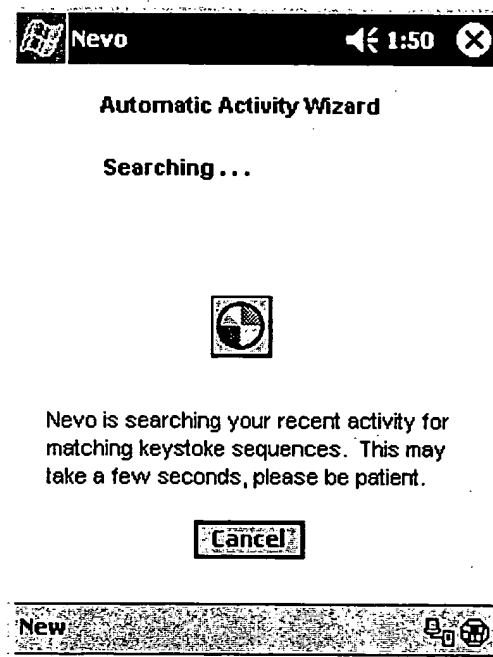


FIGURE 12 h

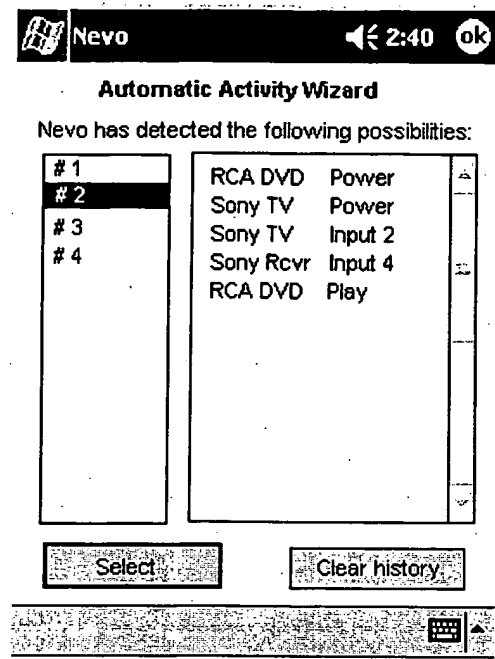


FIGURE 12 i

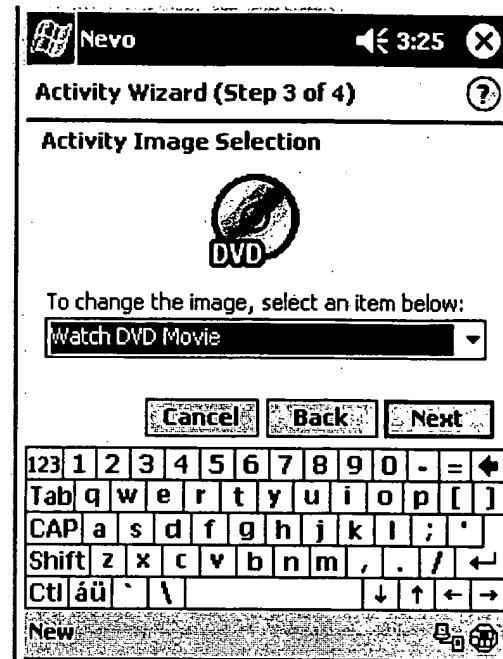


FIGURE 12 j

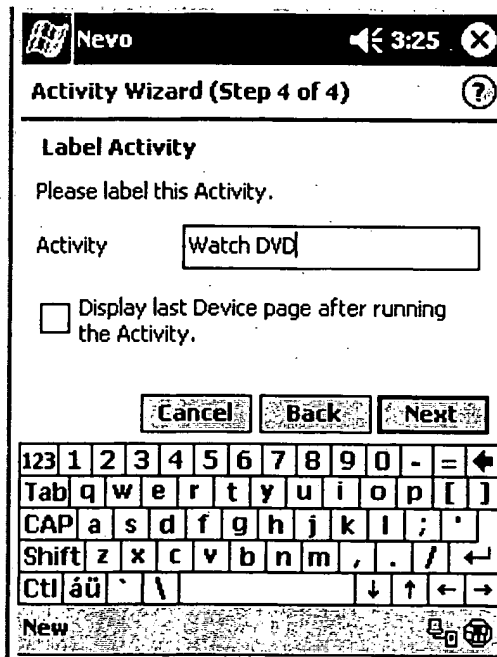


FIGURE 12 k

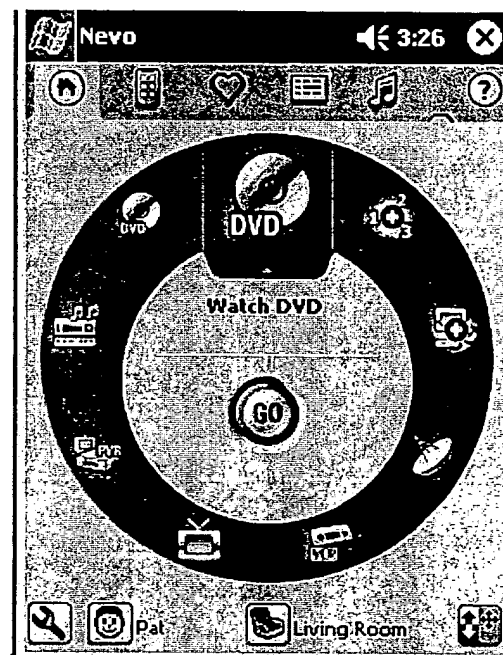


FIGURE 12 l

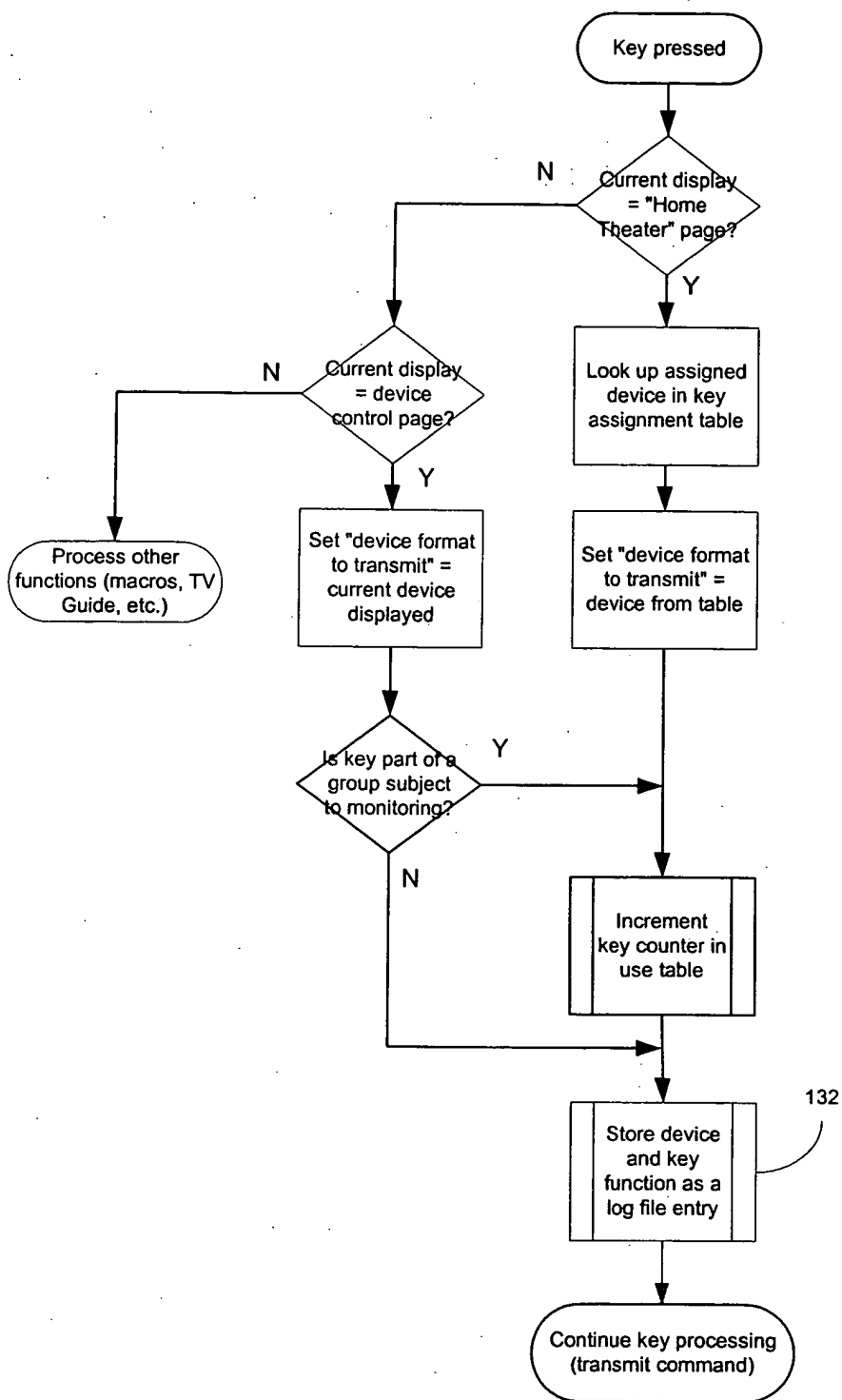


FIGURE 13

Matching  
sequences

CD	Power Off
DVD	Power On
TV	Power On
TV	Input 2
RCVR	Input 4
DVD	Play
RCVR	Vol+
RCVR	Vol+
DVD	Pause
DVD	Play
DVD	Stop
TV	Input1
SAT	2
SAT	6
SAT	3
SAT	Chan +
	Chan +

CD	
CD	Track +
CD	Stop
DVD	Power On
TV	Power On
TV	Input 2
RCVR	Input 4
DVD	Play
RCVR	Vol-
DVD	Stop
TV	Power off
RCVR	FM/AM
RCVR	7
RCVR	Vol-
RCVR	Vol-
RCVR	11
	Vol+

FIGURE 14

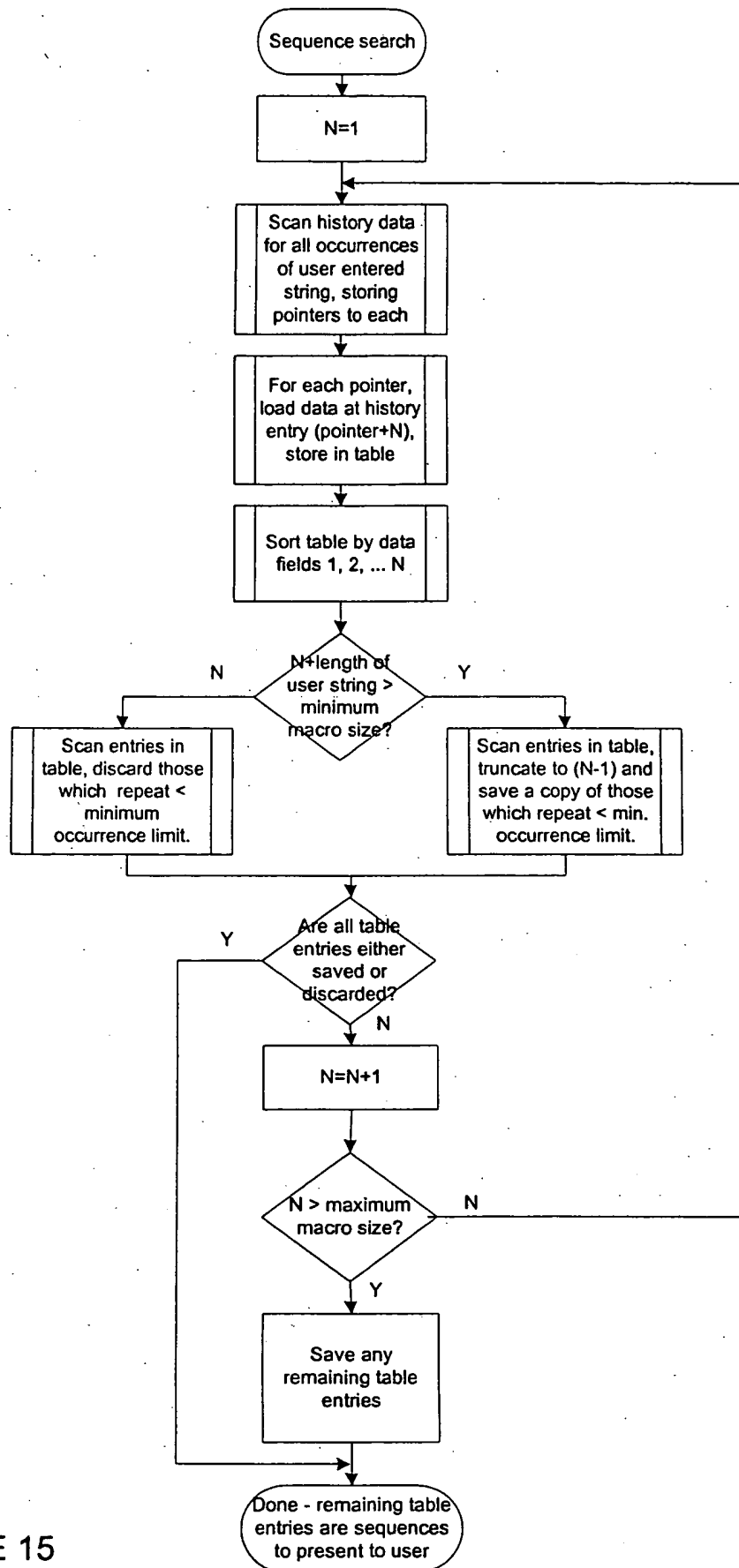
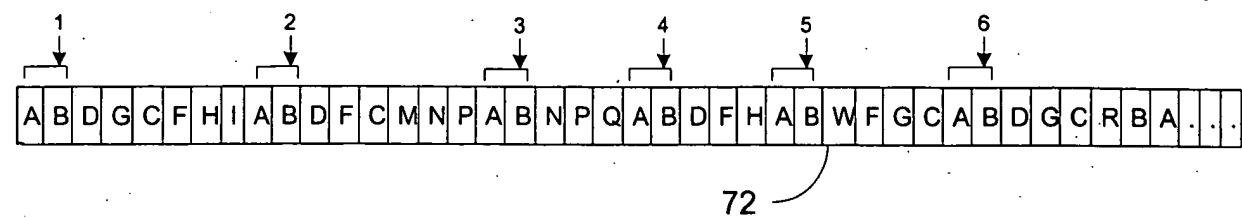
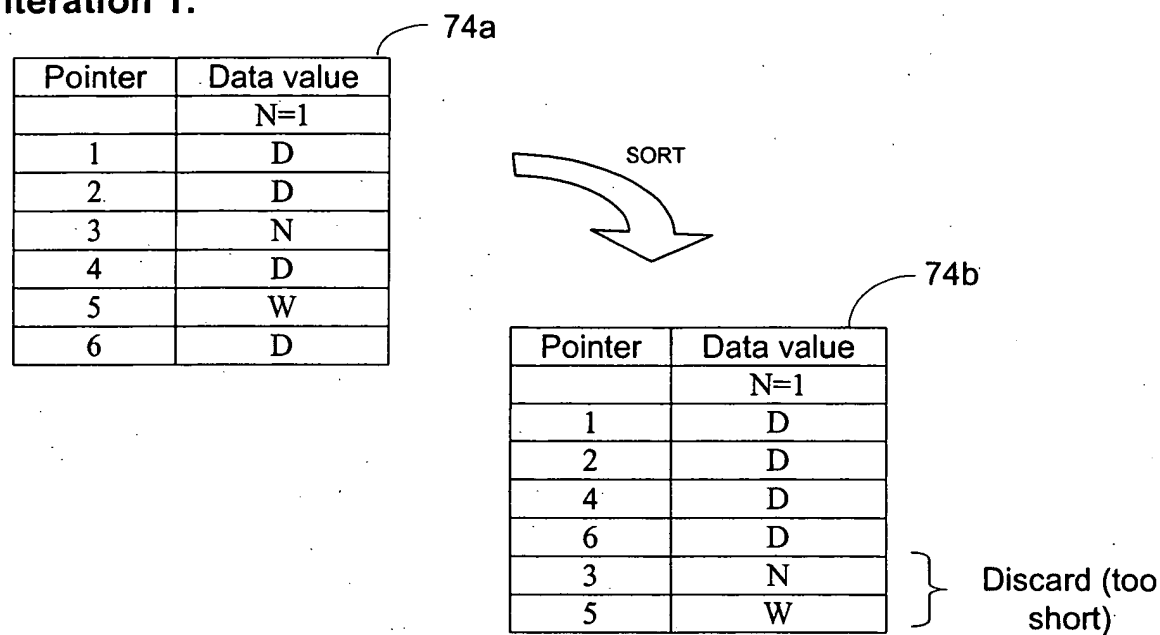


FIGURE 15

Sample history data. (User entered "AB" as start of desired sequence.)



Iteration 1:



Iteration 2:

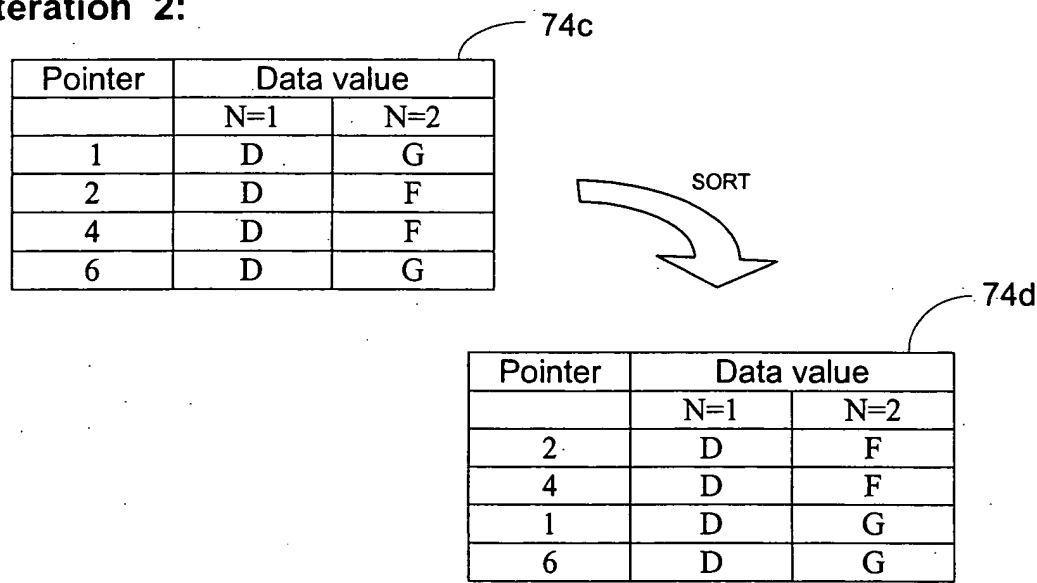
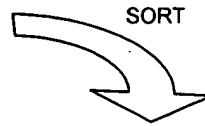


FIGURE 16

**Iteration 3:**

74e

Pointer	Data value		
	N=1	N=2	N=3
2	D	F	C
4	D	F	H
1	D	G	C
6	D	G	C



74f

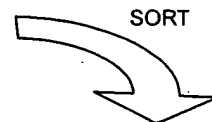
Pointer	Data value		
	N=1	N=2	N=3
2	D	F	C
4	D	F	H
1	D	G	C
6	D	G	C

Save "ABDF"

**Iteration 4:**

74g

Pointer	Data value			
	N=1	N=2	N=3	N=4
1	D	G	C	F
6	D	G	C	R



74h

Pointer	Data value			
	N=1	N=2	N=3	N=4
1	D	G	C	F
6	D	G	C	R

Save "ABDGC"

**Iteration 5:** Completion -- data table empty, all entries either discarded or saved.

**Sequences found and saved:** ABDF and ABDGC

FIGURE 16 (continued)



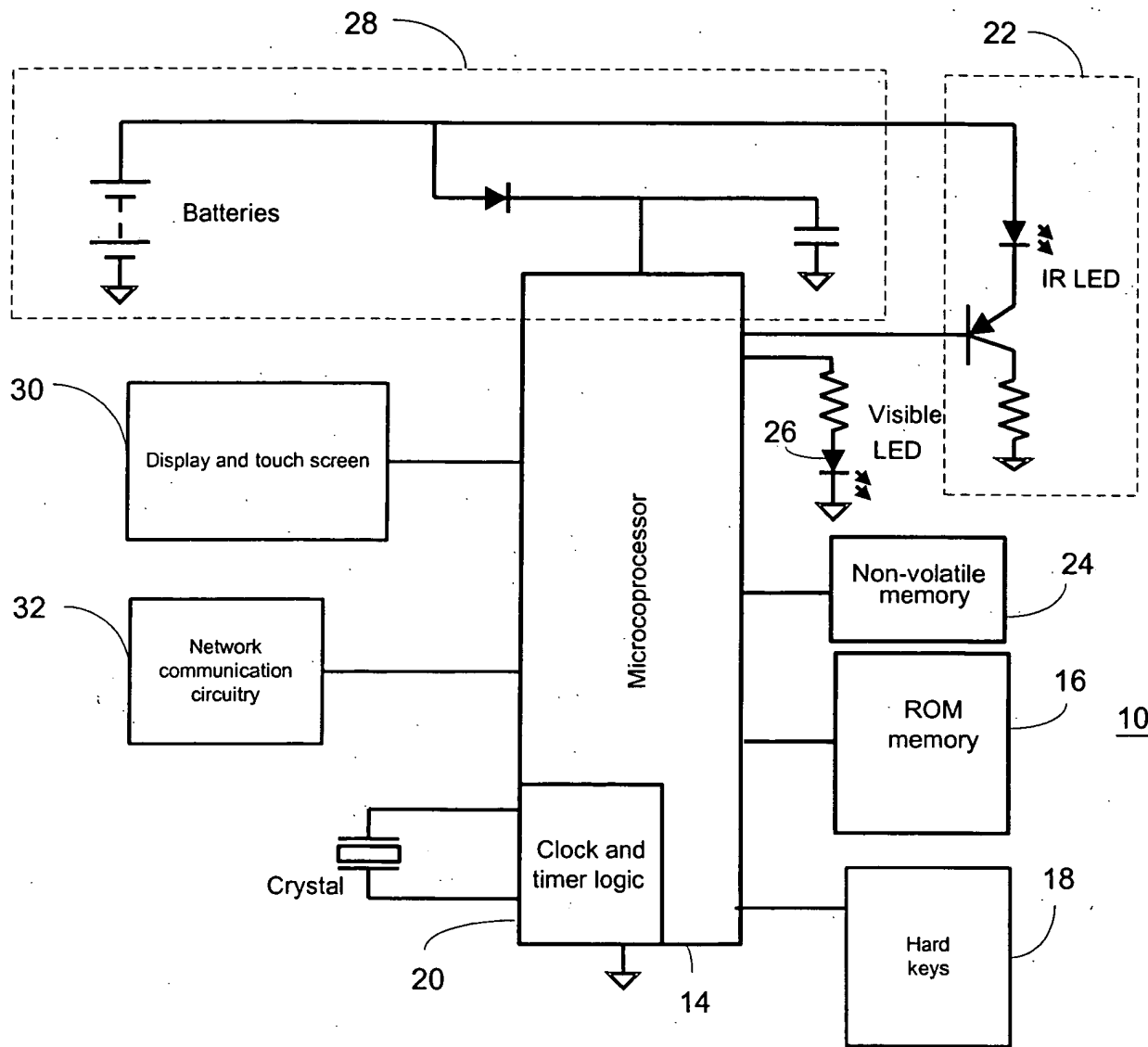


FIGURE 17